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RANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CENCERNING A FILING UNDER 35 U.S.C. 371 ATTORNEY'S DOCKET NUMBER

NREL 98-34CIP

U.S. APPLICATION NO. (If known, see 37 CFR 1.5

10/088760

INTERNATIONAL APPLICATION NO.

INTERNATIONAL FILING DATE 21 JANUARY 2000

PRIORITY DATE CLAIME 21 JANUARY 2000

TITLE OF INVENTION

DIRECT PRINTING OF	THIN-FII M	CONDUCTORS	HSING METAL.	CHELATE INK
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APPLICANT(S) FOR DO/EO/US Douglas L. Schulz et al. Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: 1. This is a FIRST submission of items concerning a filing under 35 U.S.C. 371. 2. This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371. 3. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. The US has been elected by the expiration of 19 months from the priority date (Article 3 1). 5. A copy of the International Application as filed (35 U.S.C. 371(c)(2)) is attached hereto (required only if not communicated by the International Bureau). has been communicated by the International Bureau. is not required, as the application was filed in the United States Receiving Office (RO/US). 6. An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). is attached hereto. has been previously submitted under 35 U.S.C. 154(d)(4). 7. Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. have not been made and will not be made 8. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)). 9. An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 11. 🔯 An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 12. 13. A FIRST preliminary amendment. A SECOND or SUBSEQUENT preliminary amendment. 14. 15. A substitute specification. A change of power of attorney and/or address letter. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821 - 1.825. 17. A second copy of the published international application under 35 U.S.C. 154(d)(4). 18. A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4). 19. 20. 🔀 Other items or information:

Post Card Receipt

U.S. APPLICATION TO A RECO	18876		TERNATIONAL APPLICATION NO	CT/US01/00430		attorney s dock NREI	LET NUMBER L 98-34CIP
21. The following					CAI	CULATIONS P	TO USE ONLY
BASIC NATIONAL			(1) - (5)): on fee (37 CFR 1.482)				
nor international se	arch fee (37 0	CFR 1.445(a	a)(2) paid to USPTO	\$1000.00			
			7 CFR 1.482) not paid to pared by the EPO or JPO				
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			7 CFR 1.482) paid to US CT Article 33(l)-(4)				
			7 CFR 1.482) paid to US				
			article 33(l)-(4) BASIC FEE AMOU		\$ 10	20.00	
			or declaration later than	20 30	Ψ 10	00.00	
months from the ear	liest claimed p	priority date	(37 CFR 1.492(e)).		\$		
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Applicant claim are reduced by	Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above				\$		
			SI	JBTOTAL -	\$ 7	2.50	
Processing fee of \$1	<b>30.00</b> for furr	nishing the E	English translation later th			2.50	
months from the ear	liest claimed p	priority date	(37 CFR 1.492(f)).		\$		
			TOTAL NATIO	NAL FEE =	\$		
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +			\$				
TOTAL FEES ENCLOSED =			\$ 72	2.50			
						ount to be refunded:	\$
						charged:	\$ 72.50
a. A check in	the amount	of \$	to cover th	e above fees is enclo	sed.		
b. Please charge my Deposit Account No. <u>14-1460</u> in the amount of \$ 72.50 to cover the above fees. A duplicate copy of this sheet is enclosed.							
c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 14-1460 A duplicate copy of this sheet is enclosed.							
d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card							
informatio	n should not	be include	<b>d on this form.</b> Provide o	credit card information	n and	authorization on	PTO-2038.
NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been thet, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the application to pending status.							
SEND ALL CORRESPO				<u></u>	m	J.W.	ite
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Paul J. White National Renev	wable Ener	av Labora	torv	<u>Paul J.</u> NAME	Whit	e	
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Golden, CO 80	401		,	30,436		NUMBER	
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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RE: International Patent Application of Midwest Research Institute			)	
		PCT/US01/00430	) )	
International Fil	ing Date:	5 January 2000	) ) Atty Docket No. NREL PCT/98-34C	!IF
	Direct Printing Using Metal-C	of Thin-Film Conduc	tors)	

## **CERTIFICATE OF MAILING UNDER 37 CFR § 1.10**

Express Mail Mailing Label No. EJ200220846US

Date of Deposit 21March 2002

I hereby certify that the following attached items:

- (1) Application [Specification 12 pgs, Claims 2 pgs, Abstract 1 pg]
- (2) 4 sheets of Drawings comprising Figure 1-4
- (3) Transmittal Letter to the United States Designated Elected Office (DO/EO/US) Concerning a Filing Under 35 USC 371 [2 pgs]
- (4) Combined Declaration and Power of Attorney [2 pgs]
- (5) Postcard receipt

have been deposited in the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and addressed to: The Assistant Commissioner for Patents, Box Patent Application, Washington, DC. 20231.

National Renewable Energy Laboratory

Janice F Brown
Patent Administrator

1617 Cole Boulevard Golden, CO 80401 303/384-7576 303/384-4799 (fax)